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Listing of Claims

1. (Currently amended) A copolymer comprising at least one first monomeric unit and at least one second monomeric unit, wherein the at least one first monomeric unit has a Formulae I and I(a)

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and the at least one second monomeric unit is selected from aromatic groups having Formula V

where:

in each of Formulae I, I(a) and V:

R is a substituent on a carbon atom which can be the same or different at each occurrence and is selected from hydrogen, alkyl, aryl, heteroalkyl,

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heteroaryl, F, -CN, -OR 1 , -CO $_2$ R 1 , -C $_\psi$ H $_\theta$ F $_\lambda$, -OC $_\psi$ H $_\theta$ F $_\lambda$, -SR 1 , -N(R 1) $_2$, -P(R 1) $_2$, -SOR 1 , -SO $_2$ R 1 , -NO $_2$, and beta-dicarbonyls having Formula XII

$$R^{2} \xrightarrow{C} \xrightarrow{CH} \xrightarrow{R^{2}} R^{2}$$

$$(CH_{2})_{\delta} \xrightarrow{\qquad} (XII)$$

or

wherein R^2 is selected from hydrogen, alkyl, aryl, heteroalkyl, and heteroaryl; δ is 0 or an integer from 1 to 12 and adjacent R groups together can form a 5- or 6-membered cycloalkyl, aryl, or heteroaryl ring, such that:

R¹ is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl; and

 ψ is an integer between 1 and 20, and θ and λ are integers satisfying Equation A1 below:

$$\theta + \lambda = 2\psi + 1;$$
 (Equation A1);

in Formula V:

E can be the same or different at each occurrence and is a single bond or a linking group selected from arylene and heteroarylene; in Formula V:

Q1 is a carbonyl group, O, S, SO2, or NR1 where:

R¹ is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl;

W is H, alkyl or heteroalkyl; or both of W together can represent one single bond.

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in Formula XII:

R² is selected from hydrogen, alkyl, aryl, heteroalkyl and heteroaryl; 5 is 0 or an integer from 1 to 12.

- 2. (Original) The copolymer of Claim 1, wherein R groups in one or more of the at least one first monomeric unit are independently selected from alkyl groups having 1 to 30 carbon atoms; heteroalkyl groups having 1-30 carbon atoms and one or more heteroatoms of S, N, or O; aryl groups having from 6 to 20 carbon atoms, and heteroaryl groups having from 2 to 20 carbon atoms and one or more heteroatoms of S, N, or O.
- 3. (Original) The copolymer of Claim 1 that excludes any vinylene monomeric units.
- 4. (Currently amended) The copolymer of Claim 1 wherein each R group in each of Formula I, I(a), and Formula V is selected from:

hydrogen;

alkyl;

aryl;

heteroalkyl;

heteroaryl;

F;

-CN:

-P(R¹)₂ and -SOR¹, where R¹ is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl;

-NO₂:

a beta-dicarbonyl having Formula XII shown in Figure 12;

 $-C_{\mathbf{W}}H_{\mathbf{\theta}}F_{\lambda}$

-OC_WH_θF_λ;

- -OR¹, -CO₂R¹, -SR¹, -N(R¹)₂, and -SO₂R¹ where R¹ is a straight chain or branched alkyl of more than 20 carbons or a straight chain or branched heteroalkyl.
- 5. (Original) The copolymer of Claim 1 wherein the at least one of the R groups in one or more of the at least one first monomeric unit is independently selected from linear and branched n-butyl groups; linear and branched pentyl groups; linear and octyl groups with and

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without olefinic unsaturation; phenyl groups, thiophene groups, carbazole groups, alkoxy groups, phenoxy groups and cyano groups.

- 6. (Original) The copolymer of Claim 1 wherein at least one of the R groups in ' ' one or more of the at least one first monomeric unit are independently selected from H, C₆-C₁₂ alkoxy, phenoxy, C₆-C₁₂ alkyl, phenyl and cyano.
- 7. (Currently amended) The copolymer of Claim 1 wherein one or more of the at least one second monomeric unit is selected from Formulae V(a) through V(e)

where:

in Formulae V(a), and V(b):

R is as described above for each of Formulae I, I(a), and V; and

in Formula V(e):

R¹ is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl.

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8. (Canceled)

9. (Currently Amended) The copolymer of Claim 1, wherein one or more of the at least one second monomeric unit has Formula V wherein R is selected from: partially or fully fluorinated alkyl groups having from 1 to 12 carbon atoms; alkoxy groups having from 1 to 12 carbon atoms; esters having from 3 to 15 carbon atoms;

-SR¹, -N(R¹)₂, -P(R¹)₂, -SOR¹, -SO₂R¹, where R¹ is an alkyl group having from 1 to 12 carbon atoms;

-NO₂; and

beta-dicarbonyls having Formula XII

where:

in-Formula XII:

wherein

 R^2 is an alkyl group having from 1 to 12 carbon atoms and δ is 0, 1, or 2.

- 10. (Canceled)
- 11. (Canceled)
- 12. (Original) The copolymer of Claim 1, wherein one or more of the at least one second monomeric unit has Formula V wherein:

R groups are selected from H, C_6 - C_{12} alkyl groups, C_6 - C_{20} aryl groups, and C_2 - C_{20} heteroaryl groups; and

the two W represent one single bond.

13. (Canceled)

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- 14. (Original) An electronic device comprising at least one electroactive layer comprising the copolymer of Claim 1.
- 15. (Original) The device of Claim 14, wherein the device comprises a hole injection/transport layer comprising the copolymer of Claim 1.
- 16. (Original) The device of Claim 14, wherein the device comprises an electron injection/transport layer comprising the copolymer of Claim 1.
- 17. (Original) The device of Claim 14, wherein the electroactive layer comprises a light-emitting material comprising the copolymer of Claim 1.
- 18. (Original) The copolymer of Claim 1, further comprising end-capping groups comprising an aromatic group.
- 19. (Original) The device of Claim 14, wherein the device is selected from a light-emitting device, a photodetector, and a photovoltaic device.
- 20. (Original) The device of Claim 14, wherein the device is an electroluminescent display.